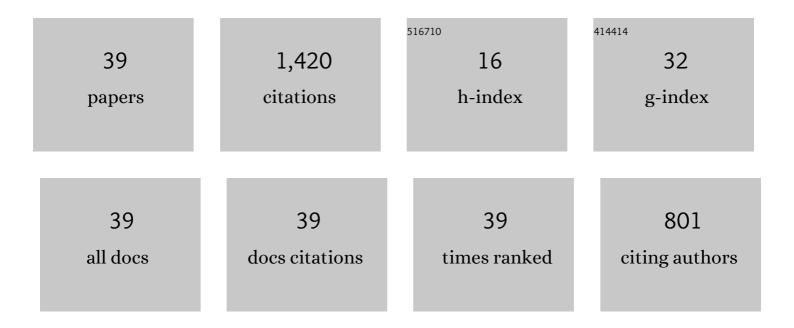
Steven L Baughcum

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microwave spectroscopic study of malonaldehyde (3-hydroxy-2-propenal). 2. Structure, dipole moment, and tunneling. Journal of the American Chemical Society, 1981, 103, 6296-6303.	13.7	262
2	Microwave spectroscopic study of malonaldehyde. 3. Vibration-rotation interaction and one-dimensional model for proton tunneling. Journal of the American Chemical Society, 1984, 106, 2260-2265.	13.7	221
3	Photofragmentation infrared emission studies of vibrationally excited free radicals CH3 and CH2I. Journal of Chemical Physics, 1980, 72, 6531-6545.	3.0	197
4	Microwave spectroscopic study of malonaldehyde. 4. Vibration-rotation interaction in parent species. Journal of the American Chemical Society, 1984, 106, 2265-2267.	13.7	138
5	Laser UV photofragmentation of halogenated molecules. Selective bond dissociation and wavelength-specific quantum yields for excited iodine (2P1/2) and bromine (2P1/2) atoms. The Journal of Physical Chemistry, 1981, 85, 3844-3851.	2.9	122
6	Photofragment fluorescence as an analytical technique: application to gas-phase alkali chlorides. Analytical Chemistry, 1986, 58, 1430-1436.	6.5	68
7	Real-time detection of methyl radicals by diode laser absorption at 608 cmâ~'1. Chemical Physics Letters, 1982, 88, 568-571.	2.6	50
8	Removal rate constant measurements for methoxy radical by oxygen over the 298-973 K range. The Journal of Physical Chemistry, 1987, 91, 4653-4655.	2.9	50
9	Laser photodissociation of Hg(CH3)2: Infrared emission studies of vibrational and rotational excitation in the CH3 fragments. Chemical Physics Letters, 1982, 89, 183-188.	2.6	41
10	An evaluation of upper troposphere NOxwith two models. Journal of Geophysical Research, 1998, 103, 22097-22113.	3.3	31
11	Photofragmentation dynamics and reactive collisions of laser-excited electronic states. Faraday Discussions of the Chemical Society, 1979, 67, 306.	2.2	29
12	Experimental study of particle deposition in the environmental control systems of commercial airliners. Building and Environment, 2016, 96, 62-71.	6.9	22
13	Optically pumped NO (A 2Σ+→X 2π) ultraviolet laser. Applied Physics Letters, 1985, 46, 22-24.	3.3	21
14	In-flight monitoring of particle deposition in the environmental control systems of commercial airliners in China. Atmospheric Environment, 2017, 154, 118-128.	4.1	21
15	Collisional quenching of methoxy(A2A1) radical. The Journal of Physical Chemistry, 1987, 91, 3253-3259.	2.9	19
16	CH3O+CO removal rate constant measurements over the 473–973 K temperature range. Chemical Physics Letters, 1987, 138, 548-552.	2.6	19
17	Direct deposition of subsonic aircraft emissions into the stratosphere. Journal of Geophysical Research, 1999, 104, 8317-8327.	3.3	16
18	OH reaction rate constant, IR absorption spectrum, ozone depletion potentials and global warming potentials of 2-bromo-3,3,3-trifluoropropene. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	13

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19	Direct measurements of methoxy removal rate constants for collisions with CH4, Ar, N2, Xe, and CF4 in the temperature range 673–973 K. Proceedings of the Combustion Institute, 1989, 22, 973-981.	0.3	10
20	The Impact on the Ozone Layer of a Potential Fleet of Civil Hypersonic Aircraft. Earth's Future, 2020, 8, e2020EF001626.	6.3	10
21	Potential Impacts of Supersonic Aircraft Emissions on Ozone and Resulting Forcing on Climate: An Update on Historical Analysis. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034130.	3.3	10
22	NMR studies of furan and thiophene partially oriented in a lyotropic liquid crystal. Journal of Magnetic Resonance, 1972, 7, 253-259.	0.5	9
23	Numerical modeling of particle deposition in the environmental control systems of commercial airliners on ground. Building Simulation, 2017, 10, 265-275.	5.6	9
24	Stratospheric Ozone and Climate Forcing Sensitivity to Cruise Altitudes for Fleets of Potential Supersonic Transport Aircraft. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034971.	3.3	7
25	Thermodynamics of lead diiodide dissociation and the laser-induced fluorescence excitation spectrum of lead monoiodide(A-X). The Journal of Physical Chemistry, 1987, 91, 3840-3845.	2.9	6
26	Measurement of the C ₂ (<i>a</i> ³ Î <i>_u</i>) and C ₂ (<i>X</i> ¹ Σ ⁺ <i>_g</i>) Disappearance Rates with O ₂ from 298 to 1300 Kelvin. ACS Symposium Series, 1983, , 257-266.	0.5	5
27	Gas-phase oxidation of atomic boron and boron monoxide. AIP Conference Proceedings, 1986, , .	0.4	5
28	<title>Free Radical Studies By Excimer Laser Ultraviolet Photolysis</title> . Proceedings of SPIE, 1978, , .	0.8	2
29	Laser-Initiated Chain Reactions In The Partial Oxidation Of Methane. , 1986, , .		2
30	Correction to "OH reaction rate constant, lR absorption spectrum, ozone depletion potentials and global warming potentials of 2â€bromoâ€3,3,3â€ŧrifluoropropene― Journal of Geophysical Research, 2012, 117, .	3.3	2
31	Photofragment Fluorescence As A Sensitive Probe For Gas-Phase Alkali Compounds And Their Photochemistry. Proceedings of SPIE, 1985, , .	0.8	1
32	A Hybrid Chemical/Excimer Laser Concept. Proceedings of SPIE, 1988, 0875, 149.	0.8	1
33	Absorption by ground-state lead atoms of the 283.3-nm resonant line from a lead hollow cathode lamp: an absolute number density calibration. The Journal of Physical Chemistry, 1989, 93, 7336-7338.	2.9	1
34	Production Of Gallium Atoms By Excimer Laser Photolysis Of Trimethylgallium. Proceedings of SPIE, 1985, , .	0.8	0
35	Absorption sensitivity enhancement in methyl fluoride at 1200cm^â^1 using Stark polarization rotation. Journal of the Optical Society of America B: Optical Physics, 1985, 2, 1480.	2.1	0
36	Photochemistry of trimethylgallium with applications to atomic gallium reaction kinetics. AIP Conference Proceedings, 1986, , .	0.4	0

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37	Photofragment fluorescence as an analytical technique: Application to gas-phase alkali compounds. AIP Conference Proceedings, 1986, , .	0.4	Ο
38	Laser Photochemistry Of Gallium-Containing Compounds. Proceedings of SPIE, 1986, , .	0.8	0
39	Quantifying the Fuel Consumption Penalties for an Operational Contrail Avoidance System. , 0, , .		0